



OIPE

RAW SEQUENCE LISTING DATE: 02/12/2002 PATENT APPLICATION: US/10/053,410 TIME: 12:00:32

Input Set : A:\1276SEQLIST.TXT

									•							-		
	4	<110>	API	PLIC	:TNA	Sewa	alt,	Vind	cent	J. 1	. F					F	UTF	ERE
	5		Jui	ng, 1	Rudo.	lf										-		am I & Marco Sa
	6		Hu	, Wai	ng-Na	an												•
	7		Mee	eley	, Rol	pert	В.											
	9	<120>	TI	rle (OF I	VEN	CION	: Imp	prove	ed G:	rain	Qua:	lity	Thro	ough	Alte	ered	
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	35				gtg													167
	36	Met	Lys	Leu	Val	Leu	Val	Val	Leu	Ala	Phe	Ile	Ala	Leu	Val	Ser	Ser	
	37	1				5					10					15		
	39	_		-	aca	_				_	_	-					-	215
	40	Val	Ser	Cys	Thr	Gln	Thr	Gly	Gly		Ser	Cys	Gly	Gln		Gln	Ser	
	41				20					25					30			
	43				caa													263
	44	His	Glu		Gln	His	His	Pro		Gln	His	His	Pro		Lys	Gln	Gln	
	45			35					40					45				
	47				cca					-	_	_						311
	48	His		Pro	Pro	Pro	Gln		His	Gln	Gln	Gln		His	Gln	Gln	GIn	
	49		50					55					60					
	51		_		atg						_				_	_		359
	52		Val	His	Met	Gln		Gln	Lys	His	Gln		Gln	Gln	Glu	Val		
	53	65					70					75					80	
	55				caa													407
	56	Val	Gln	Gln	Gln		Gln	Gln	Pro	Gln		Gln	GIn	Gln	Gln		Gln	
	57					85					90					95		455
	59	caa	cag	cac	caa	caa	caa	cat	caa	tgt	gaa	ggc	caa	caa	caa	cat	cac	455



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60	Gln	Gln	His	Gln	Gln	Gln	His	Gln	Cys	Glu	Gly	Gln	Gln	Gln	His	His	
61				100					105					110			
63			tca								-	-	-				503
64	Gln	Gln	Ser	Gln	Gly	His	Val		Gln	His	Glu	Gln		His	Glu	Gln	
65			115					120					125			_	
67			gga	_	_										_		551
68	His		Gly	GIn	Ser	His		Gln	Gin	His	GIn		GIn	Phe	GIn	GIA	
69		130					135					140					
71		_	aag	_					-		_			•	_		599
72		Asp	Lys	GIn	GIN		Pro	GIN	GIn	Pro		GIN	туг	GII	GIN		
73	145			A		150					155					160	647
75 76	-	-	aaa			_			-		-	_		_		-	647
76	GIN	GIU	Lys	ser		GIII	GIII	GIN	Cys		Cys	GIII	GIU	GIII		GIII	
77					165					170					175		COF
79			agg	_	_					_	_	_					695
80	Thr	Thr	Arg		ser	Tyr	Asn	Tyr		ser	Ser	ser	ser		Leu	Lys	
81			غدم	180	++~	a+-		~~~	185	+		a a t	++~	190	2+4	aat	743
83			cat														743
84	ASI	Cys	His	GIU	Pne	Leu	Arg		GIII	Cys	ser	PIO		Val	Met	PIO	
85 87	+++	ata	195	+ 00	aa+	++~	2+2	200	003	20+	200	+ ~ ~	205	~+ a	++ ~	O a cr	791
88			caa Gln														1 3 1
89	Pile	210	GIII	Ser	ALY	Leu	215	GIII	PIO	ser	ser	220	GIII	Val	neu	GIII	
91	G 2 2		tgt	+ ~+	na+	ast.		200	naa	a++	aaa		Caa	tac	att	Cac	839
92			Cys														037
93	225	GIII	Cys	Cys	urs	230	пец	мту	6111	116	235	FIO	GIII	тут	176	240	
95		aca	atc	tac	aac		att	caa	toc	ata		сап	nan	man	caa		887
96		-	Ile			_	_					_	_	_			007
97	0111	A L U	110	1 7 1	245	rict	vul	OIII	DCI	250	110	OIII	Olu	Olu	255	GIH	
99	caa	саа	cca	tat		tta	tat	ααа	tet		саа	act	act	cca	_	tac	935
100																s Cys	,,,,
101	01.			260					265					270		1-	
103	aat	a a a	e aat	t cti	t qad	e ago	e ago	e aca	ata	a cct	t acc	c ato	aa a	t ato	a cad	g ctt	983
104					-	-	_									g Leu	
105	-		275		•			280					28				
107	qta	a cca	a cto	ata	a cta	a cca	aaa	a taa	atcca	itgc	agca	aqcaa	atg a	acati	tagto	वव	1034
108			o Lei	_						_	-	•	-				
109		290					29										
111	tgi	ttq	caat	tgaa	agaat	ttq 1	tgtci	tacct	a go	cogti	tatad	c to	atata	aacq	gtgi	ttaagca	1094
112	-	-	tacc	_	_	_	-		-	_				_		-	1129
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			ENGTI														
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121	1				5					10					15		
122	Va:	l Se	r Cys	s Thi	r Gli	n Th	r Gly	y Gly	Cys	s Sea	r Cys	s Gly	y Gl	n Gl:	a Gli	n Ser	
123				20					25					30			



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124 125	His	Glu	Gln 35	Gln	His	His	Pro	Gln 40	Gln	His	His	Pro	Gln 45	Lys	Gln	Gln	
126	His			Pro	Pro	Gln			Gln	Gln	Gln			Gln	Gln	Gln	
127	01	50	***	30.1	a 1	5	55	.	TY 1 -	a 1	a1	60	a1-	01	77 - 3	***	
128		vaı	HIS	мет	GIn	Pro 70	GIN	гàг	HIS	GIn		GIN	GIN	GIU	vaı		
129 130	65 val	Cln.	Gln	Cln	Gln	Gln	Gln	Dro	Gln	uic	75 Gln	G1n	Gln	Cln	Gln	80 Gln	
131					85					90					95		
132 133	Gln	Gln	His	Gln 100	Gln	Gln	His	Gln	Cys 105	Glu	Gly	Gln	Gln	Gln 110	His	His	
134	Gln	Gln			Gly	His	Val		Gln	His	Glu	Gln		His	Glu	Gln	
135 136	uic	Cln	115	Cln	cor	His	C112	120	Cln	Uic	Cln	Cln	125	Dho	Cln	G1 v	
137	nis	130	СТУ	GIII	261	птъ	135	GIII	GTII	птэ	GIII	140	GIII	FIIC	GIII	GLY	
138	His		Lvs	Gln	Gln	Gln		Gln	Gln	Pro	Gln		Tvr	Gln	Gln	Glv	
139	145	L	-2-			150					155					160	
140	Gln	Glu	Lys	Ser	Gln	Gln	Gln	Gln	Cys	His	Cys	Gln	Glu	Gln	Gln	Gln	
141					165					170					175		
142 143	Thr	Thr	Arg	Cys 180	Ser	Tyr	Asn	Tyr	Tyr 185	Ser	Ser	Ser	Ser	Asn 190	Leu	Lys	
144	Asn	Cys	His		Phe	Leu	Arg	Gln		Cys	Ser	Pro	Leu		Met	Pro	
145		•	195					200		•			205				
146	Phe	Leu	${\tt Gln}$	Ser	Arg	Leu	Ile	Gln	Pro	Ser	Ser	Cys	Gln	Val	Leu	Gln	
147		210					215					220					
148	Gln	Gln	Cys	Cys	His	Asp	Leu	Arg	Gln	Ile	Glu	Pro	Gln	Tyr	Ile	His	
149	225					230					235					240	
150	Gln	Ala	Ile	Tyr		Met	Val	Gln	Ser		Ile	Gln	Glu	Glu		Gln	
151	_	_			245					250					255	_	
152	Gln	Gln	Pro		Glu	Leu	Cys	Gly		Gln	Gln	Ala	Thr		Lys	Cys	
153	a 3	~1	•	260	•	a	a	m1	265	D	m1	-1 -	3	270	3	T	
154	GIŸ	GTÀ	275	Leu	Asp	Ser	ser		тте	PLO	Tnr	тте		vaı	Arg	Leu	
155 156	Wal	Dro		TIO	Lon	Pro	Tare	280					285				
157	, var	290	цеи	116	пец	FIO	295										
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171	acaa	agtg	gcg a	acaga	acaaa	ag at	tttgi	tgag	g gto	gatco	cgcg	ctga	agaaq	gag a			116
172																Ala	
173													~~~		1		1.64
175						gcg											164
176	ьys	тте	АТА	ALd	Ala	Ala	ATG	ATG	ATG	ьeu	Cys	rne	HIG	HId	Ten	val	



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177			E					10					15				
177 179	gcc g	rt a	5	atc	tac	caa	aac		atc	σασ	caa	cad		ete	agg	gac	212
180	Ala V																
181	AIG V	20	лти	VUL	Cys	0111	25	014	141	OLU	**** 9	30		200			
183	ctg c		tac	taa	cad	ααα		cad	ααα	age	cca		gac	aca	tac	cac	260
184	Leu G																
185	35	7 1, 11	Cys	111	GIII	40	V U I	0111	Olu	DCI	45	БСи	1100	23.2.4	C _I D	50	
187	cag g	·+ a	ata	as a	aaa		ota	200	σσο	aac		aac	aac	aac	aac		308
188	Gln V																300
189	GIII V	/aı	rea	ASP	55	GTII	Leu	1111	Gry	·60	GLY	Gry	Gry	GLY	65	va ₁	
191	ggc c		++~	~~~		~~~	200	~~~	ata		a t a	aaa	tac	tac		cad	356
191	Gly P																330
192	GLY P	210	Pile	70	115	Gry	1111	GTA	75	пта	MEC	nra	Cys	80	0111	OIII	
	ctc c		~~~		200	000	~~~	+~~		+ ~ ~	a00	a00	ato		age	ato	404
195	Leu G																101
196	Leu G	2 T I I		val	per	Ary	GIU	90	ALY	Cys	AIG	Ата	95	Arg	Jer	Mec	
197	gtc a		85	+	~~~	~~~	~~~		224	000	ata	aaa		aac	taa	taa	452
199	Val A	199	ggc	Lac	gay	Clu	312	Mot	Dro	Dro	Tou	Clu	Lve	614	Trn	Trn	432
200			СТУ	TAT	GIU	GIU	105	Met	PIO	PIO	цец	110	цуз	GLY	ттр	115	
201		100			~~~	~~~		222	~~~	~~~	030		aa.	aaa	aaa	ααε	500
203	cca t																200
204	Pro I	rrp	GTÀ	Arg	GIII		GTII	PIO	PIO	PIO	125	Gry	GTÅ	GTÄ	Gry	130	
205	115					120	~~~	+ ~ ~	200			~~~	a 2 a	aa 2	+20		548
207	cag g																240
208	Gln G	τλ	GTA	туг	_	TAL	PLO	Cys	ser		PIO	стх	GLU	GTĀ	145	GTÅ	
209					135			~~~	.+~	140		~~~	+~+	aa+		~~~	596
211	tac g	ggt	cag	ggt	ggc	cag	cgg	cag	Mat	La L ™···×	Dro	Dro	Crrc	Ara	Dro	990 01v	390
212	Tyr C	ĮΫ́	GIN		GTÄ	GIII	Arg	GTII	155	тут	PIO	PIO	Cys	160	PIO	GIY	
213				150	~~~			-+-		~~~	a+ a	244	a++		220	400	644
215	acc a																044
216	Thr T	rnr		СТА	GIY	PIO	AIG	170		AIG	Val	мту	175	1111	пуз	ALG .	
217	cgg g		165		~~~	~~~	++~			2+4	+ ~ ~	aaa		taa	αaα	CCC	692
219	Arg G	yay	Lac	310	ycy	999	Tou	Dro	Mo+	Mot	Cvc	7.50	Lou	Cor	Glu	Dro	0,2
220			TAT.	Ата	ATa	GTÄ	185	PIO	mec	mec	Cys	190	пеа	per	GIU	FIO	
221		180	+~~		2+4	++~		~~~	~~~	~~~	a a a		tam	nt a co	cat		738
223	cag g	-	-	-									Lagi	J Cu C	Cu L		750
224	Gln G	JLU	Cys	ser	TTE	200	261	СТУ	СТУ	изр	205	ıyı					
225	195						-~+ ~.			a		at a	atat	7.C.C.	aat a	raaato	798
227	ggtta	aday	geg a	19.00	ggcg	og at	39 cg	atag	2 091	tayti	ataa	grat	atto	7++ :	cy cy	caaatc	858
228																taatga tottoa	918
229										guca	yata	y ca	Lyg	Jyc ,	cyyc	tcttca	950
230	aaaaa					aa a	aaaa	aaaa	a aa								930
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238	Met A	нта	гуз	тте	Ala 5	HIG	AId	нта	wrd	10	VIG	ьcu	Cys	1116	15	1114	
239	l Leu V	1727	7 J	37.0.7		17~ 1	0	C1 ~	C1++		1727	c 1	Δra	Gln		Τ.Δ11	
240	ren /	var	ATG	val	HTG	AgT	cys	GIII	GTĀ	GIU	val	GIU	er A	GIII	ura	πeα	



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242	Arq	Asp	Leu	Gln	Cys	Trp	Gln	Glu	Val	Gln	Glu	Ser	Pro	Leu	Asp	Ala	
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244	Cys	Arg	Gln	Val	Leu	Asp	Arg	Gln	Leu	Thr	Gly	Gly	Gly	Gly	Gly	Gly	
245	_	50					55					60					
246	Gly	Val	Gly	Pro	Phe	Arg	Trp	Gly	Thr	Gly	Leu	Arg	Met	Arg	Cys	Cys	
247	65		-			70					75					80	
248	Gln	Gln	Leu	Gln	Asp	Val	Ser	Arg	Glu	Cys	Arg	Cys	Ala	Ala	Ile	Arg	
249					85					90					95		
250	Ser	Met	Val	Arg	Gly	Tyr	Glu	Glu	Ala	Met	Pro	Pro	Leu	Glu	Lys	Gly	
251				100					105					110			
252	Trp	Trp	Pro	Trp	Gly	Arg	Gln	Gln	Gln	Pro	${\tt Pro}$	Pro	Gln	Gly	Gly	Gly	
253			115					120					125				
254	Gly	Gly	Gln	Gly	Gly	Tyr	Tyr	Tyr	Pro	Cys	Ser	Arg	Pro	Gly	Glu	Gly	
255		130					135					140					
256	Tyr	Gly	Tyr	Gly	Gln	Gly	Gly	Gln	Arg	Gln	Met	Tyr	Pro	Pro	Cys	Arg	
257	145					150					155					160	
258	Pro	Gly	Thr	Thr	Gly	Gly	Gly	Pro	Arg	Ile	Gly	Arg	Val	Arg	Leu	Thr	
259					165					170					175		
260	Lys	Ala	Arg		Tyr	Ala	Ala	Gly		Pro	Met	Met	Cys		Leu	Ser	
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277 278										ме: 1	- Alc	з нт	a Ale	5 - 11.	= va.	r neu	
280	+00	aaa	aaa	ata	caa	OCC	att	000	ton	_	cta	CCC	cta	_	ctg	cta	102
281															Leu		102
282	361	Gly	10	Val	лту	rio	пси	15	DCI	DCI	пси	110	20	DCI	LCu	Dea	
284	cta	oto		ctc	cta	tac	tac		aac	acc	tca	taa		taa	agc	aca	150
285															Ser		200
286	пси	25	Deu	LCu	ncu	010	30	501	O Z I		00.	35	- 1		002		
288	tcc		gga	aaa	acc	acc		αаσ	tac	aac	tte		aac	ааσ	ctg	σασ	198
289															Leu		
290	40	9	1	1		45	3		-12	1	50	P	1	_1.5		55	
292		ct.a	σασ	cca	cac	_	aaσ	qtσ	caσ	tct		qcc	qqc	tcc	gtc		246
293															Val		
294					60					65			1		70		
296	tac	ttc	agc	caa		aac	gaa	qcc	gac		gaq	ctc	acc	tqc	gcc	ggc	294
297															Ála		
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/053,410

DATE: 02/12/2002 TIME: 12:00:33

Input Set : $A:\1276SEQLIST.TXT$

Output Set: N:\CRF3\02122002\J053410.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date